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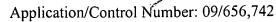
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/656,742	09/07/2000	YURIY REZNIKOV	KSU-188	1368
75	90 05/30/2003			
RAY L WEBER RENNER KENNER GREIVE BOBAK TAYLOR & WEBER SIXTEENTH FLOOR			EXAMINER	
			TON, MINH TOAN T	
FIRST NATIONAL TOWER AKRON, OH 44308-1456		ART UNIT	PAPER NUMBER	
			2971	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/656,742	REZNIKOV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Toan Ton	2871				
The MAILING DATE of this communication appeariod for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tirwithin the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed /s will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 20 N	<u>farch 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.					
3) Since this application is in condition for allowa closed in accordance with the practice under <i>E</i> Disp sition of Claims						
4)⊠ Claim(s) 1,2,4-12 and 14-27 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2,4-12 and 14-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner)				
10) The drawing(s) filed on is/are: a) accep						
Applicant may not request that any objection to the 11) The proposed drawing correction filed on						
If approved, corrected drawings are required in rep		oved by the Examiner.				
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list.	ity documents have been receiv reau (PCT Rule 17.2(a)).	ed in this National Stage				
14) Acknowledgment is made of a claim for domestic						
a) The translation of the foreign language pro						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S. Patent and Trademark Office.	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				



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Claim Rejections - 35 USC § 103

1. Claims 1-2, 4-12, 14-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gibbons et al (US 5032009, IDS) in view of Gibbons et al (US 6407789).

Gibbons ('009) discloses a liquid crystal display device and method of making thereof comprising all (as recited in independent claims) except for the irradiating light is elliptically polarized or partially polarized.

Gibbons ('789) discloses that there exists several problems/disadvantages when using linearly polarized light, as in Gibbons ('009). Gibbons ('789) solves the problems/disadvantages through the use of partially polarized light, wherein the use of partially polarized light yields several advantages such as an increase in throughput and more effective use of optical radiation, easier to produce from coherent sources considering the range of ray angles and dimensions that the sources cover (col. 3, lines 41-47). Therefore, it would have been obvious to one of ordinary skill in the art to employ the irradiating light being partially polarized light for achieving advantages such as an increase in throughput and more effective use of optical radiation, easier to produce from coherent sources considering the range of ray angles and dimensions that the sources cover.

Gibbons ('009) discloses an alignment layer comprising anisotropically absorbing molecules having liquid crystal compounds.

Gibbons ('009) discloses exposing the anisotropically absorbing molecules to polarized light of a wavelength or wavelengths within the absorption band of the anisotropically absorbing molecules.

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Gibbons ('009) discloses the molecules exposed by polarized light through at least one mask having a pattern, wherein the mask is commonly removed after exposure.

Gibbons ('009) discloses that his invention employs *conventional* liquid crystal display configuration (see Figure 1), wherein the conventional configuration comprises a pair of substrates, a liquid crystal medium sandwiched between the substrates, each substrate comprises an electrode formed thereon, an alignment layer formed at least on one of the substrates.

Depositing methods such as spin coating or dip coating are common and known in the art. Therefore, it would have been obvious to one of ordinary skill in the art to employ depositing methods such as spin coating or dip coating, as they are common and known methods in the art.

The recited thickness' range for the alignment layer is at least overlapped the known and common range in the art for yielding advantages such as achieving desirable tilting directions.

Therefore, it would have been obvious to one of ordinary skill in the art to employ a thickness range that at least overlaps the known and common range in the art for yielding advantages such as achieving desirable tilting directions

The recited anchoring-surface-energy range is at least overlapped the common range (1 erg/cm² to 10-3 erg/cm²) for yielding advantages such as achieving desirable alignment directions. Therefore, it would have been obvious to one of ordinary skill in the art to employ an anchoring-surface-energy range that at least overlaps the known and common range in the art for yielding advantages such as achieving desirable alignment directions.

Response to Arguments

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2. Applicant's arguments with respect to all claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. TON whose telephone number is (703) 305-3489. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

May 27, 2003

TOANTON
PRIMARY EXAMINER